

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number
WO 2005/073354 A1

(51) International Patent Classification⁷: C11B 1/10,
B01D 61/14, A61K 35/56

(74) Agent: SMART, Peter, J.; Beck Greener, Fulwood House,
12 Fulwood Place, London WC1V 6HR (GB).

(21) International Application Number:
PCT/GB2005/000337

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 28 January 2005 (28.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0402146.5 30 January 2004 (30.01.2004) GB
0411164.7 19 May 2004 (19.05.2004) GB

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): CHANDLER, Anthony, Michael [GB/GB]; 6 St. Mary's Road, Bluntisham, Huntingdon, Cambridgeshire PE28 3XA (GB). WHITTON, Peter, Andrew [GB/GB]; 3 Coplow Crescent, Syston, Leicester LE7 2JE (GB). LAU, Andre, Ka-chun [GB/GB]; 5 Yeomans Dale, East Goscote, Leicester (GB).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SOLVENT EXTRACTION OF LIPIDS SUCH AS ESSENTIAL FATTY ACIDS

(57) Abstract: Lipids (including fatty acids) are extracted from animal solids such as powdered, freeze dried or fresh meat of green lipped mussel (*Perna canaliculus*) by mixing said solids with a solvent such as acetone capable of dissolving lipids therefrom to form a solvent extract, removing solvent from said extract by nanofiltration to produce a concentrated lipid extract and recovered solvent, and removing further solvent from the concentrated extract by rotary evaporation to leave extracted lipids particularly rich in eicosatetraenoic acids (ETA's).

